



## Analysis Report

May 29, 2019

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Green Bay Metropolitan Sewerage District  
2231 North Quincy Street  
Green Bay, WI 54302  
USA

<b>Client Sample ID:</b>	GAC West	<b>Date Sampled :</b>	3/18/2019
<b>Date Received:</b>	05/17/2019	<b>Project Name/# :</b>	GAC Carbon
<b>Matrix:</b>	Activated Carbon	<b>Sample Type :</b>	Grab
		<b>Time Sampled :</b>	1745

**SGS Minerals Sample ID: 072-107993-001**

		<u>As Received</u>	<u>Dry</u>
% Moisture, Total	[ASTM D 3302]	12.90	
% Sulfur	[ASTM D 4239]	18.62	21.38
% Sulfur, Sulfate - FOS	[ASTMD2492 Mod.]	9.57	10.99

<u>Tests</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Traces Basis	Dry		2 Acid Digest/ICP-MS
Mercury	25	ug/g	2 Acid Digest/ICP-MS

SGS North America Inc.

Minerals Services Division  
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<b>Date Received:</b>	05/17/2019	<b>Project Name/# :</b>	GAC Carbon
<b>Matrix:</b>	Activated Carbon	<b>Sample Type :</b>	Grab
		<b>Time Sampled :</b>	1720

**SGS Minerals Sample ID: 072-107993-002**

		<u>As Received</u>	<u>Dry</u>
% Moisture, Total	[ASTM D 3302]	8.65	
% Sulfur	[ASTM D 4239]	18.85	20.64
% Sulfur, Sulfate - FOS	[ASTMD2492 Mod.]	7.60	8.32

<u>Tests</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Traces Basis	Dry		2 Acid Digest/ICP-MS
Mercury	0.38	ug/g	2 Acid Digest/ICP-MS

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<b>Client Sample ID:</b>	GAC East	<b>Date Sampled :</b>	3/18/2019
<b>Date Received:</b>	05/17/2019	<b>Project Name/# :</b>	GAC Carbon
<b>Matrix:</b>	Activated Carbon	<b>Sample Type :</b>	Grab
		<b>Time Sampled :</b>	1705

**SGS Minerals Sample ID: 072-107993-003**

		<u>As Received</u>	<u>Dry</u>
% Moisture, Total	[ASTM D 3302]	7.33	
% Sulfur	[ASTM D 4239]	16.98	18.32
% Sulfur, Sulfate - FOS	[ASTMD2492 Mod.]	5.13	5.54

<u>Tests</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Traces Basis	Dry		2 Acid Digest/ICP-MS
Mercury	0.06	ug/g	2 Acid Digest/ICP-MS

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<b>Client Sample ID:</b>	GAC West	<b>Date Sampled :</b>	5/5/2019
<b>Date Received:</b>	05/17/2019	<b>Project Name/# :</b>	GAC Carbon
<b>Matrix:</b>	Activated Carbon	<b>Sample Type :</b>	Grab
		<b>Time Sampled :</b>	0455

**SGS Minerals Sample ID: 072-107993-004**

		<u>As Received</u>	<u>Dry</u>
% Moisture, Total	[ASTM D 3302]	7.32	
% Sulfur	[ASTM D 4239]	17.74	19.14
% Sulfur, Sulfate - FOS	[ASTMD2492 Mod.]	5.97	6.44

<u>Tests</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Traces Basis	Dry		2 Acid Digest/ICP-MS
Mercury	0.07	ug/g	2 Acid Digest/ICP-MS

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<b>Client Sample ID:</b>	GAC Center	<b>Date Sampled :</b>	5/5/2019
<b>Date Received:</b>	05/17/2019	<b>Project Name/# :</b>	GAC Carbon
<b>Matrix:</b>	Activated Carbon	<b>Sample Type :</b>	Grab
		<b>Time Sampled :</b>	0430

**SGS Minerals Sample ID: 072-107993-005**

		<u>As Received</u>	<u>Dry</u>
% Moisture, Total	[ASTM D 3302]	10.36	
% Sulfur	[ASTM D 4239]	18.88	21.07
% Sulfur, Sulfate - FOS	[ASTMD2492 Mod.]	8.29	9.24

<u>Tests</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Traces Basis	Dry		2 Acid Digest/ICP-MS
Mercury	1.5	ug/g	2 Acid Digest/ICP-MS

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<b>Date Received:</b>	05/17/2019	<b>Project Name/# :</b>	GAC Carbon
<b>Matrix:</b>	Activated Carbon	<b>Sample Type :</b>	Grab
		<b>Time Sampled :</b>	0405

**SGS Minerals Sample ID: 072-107993-006**

		<u>As Received</u>	<u>Dry</u>
% Moisture, Total	[ASTM D 3302]	9.69	
% Sulfur	[ASTM D 4239]	18.74	20.76
% Sulfur, Sulfate - FOS	[ASTMD2492 Mod.]	7.71	8.53

<u>Tests</u>	<u>Result</u>	<u>Unit</u>	<u>Method</u>
Traces Basis	Dry		2 Acid Digest/ICP-MS
Mercury	1.3	ug/g	2 Acid Digest/ICP-MS

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